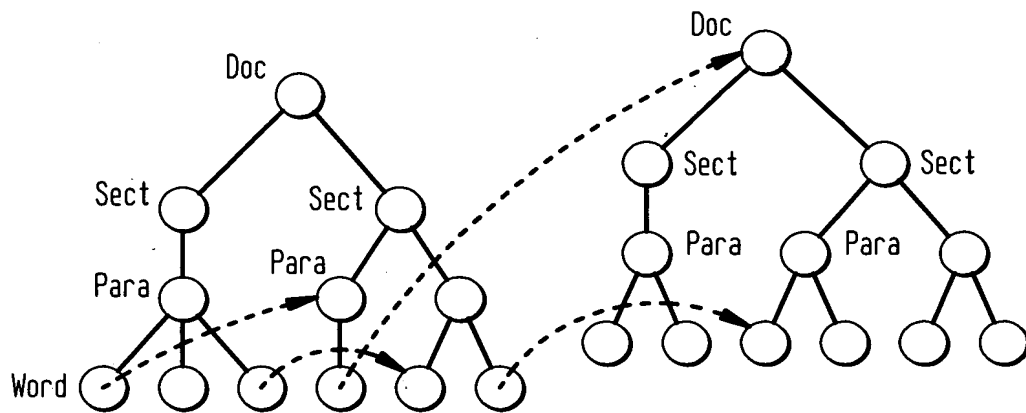




FIG. 1



```
graph TD
    PD1[PRODUCT DOCUMENTS] --> SI[12 SOURCE IDENTIFIER]
    SS[1 SOURCE SPECIFICATION] --> SI
    SI --> SAG[14 SOURCE ANCHOR GENERATOR]
    SAG --> ISLI[18 INTERMEDIATE DESTINATION IDENTIFIER]
    IDIS[INTERMEDIATE DESTINATION SPECIFICATION] --> ISLI
    ISLI --> IAG[20 INTERMEDIATE ANCHOR GENERATOR]
    IAG --> ILG[22 INTERMEDIATE LINK GENERATOR]
    ILG --> DI[26 DESTINATION IDENTIFIER]
    DS[DESTINATION SPECIFICATION] --> DI
    DI --> FSLG[28 FINAL SEMI-LINK GENERATOR]
    FSLG --> FLG[30 FINAL LINK GENERATOR]
    SI --> ISLG[16 INITIAL SEMI-LINK GENERATOR]
    SAG --> ISLG
    ISLG --> LB[36 LINK BROWSER]
    ISLG --> LM[32 LINK MANAGEMENT]
    IAG --> LM
    ILG --> LM
    DI --> LM
    LB <--> DB[40 DOCUMENT BROWSER]
    LB --> LI[38 LINK INTERPRETER]
    LM <--> LD[(34 LINK DATABASE)]
```

FIG. 3

```

source<label>:<description>
    document
        <list of document references>
    end
    pattern
        <list of pattern specifications>
    end
    context
        <list of context specifications>
    end
    anchor
        <list of anchor specifications>
    end
    link
        <list of link specifications>
    end
end

```

FIG. 4

```

<pattern specification>::=<sequence of pattern expressions>
<pattern expression>::=<pattern term> | <pattern assignment>
<pattern term>::=<subpattern> | <subpattern extraction>
<subpattern extraction>::="/" <subpattern> "/"
<pattern assignment>::=<new variable>="<pattern term>|
    "{"<pattern term>"/"<new variable>"}"
<subpattern>::="<sequence of characters>" |
    "["<subset of characters>"]"<number of repetitions> |
    "["^"<subset of characters>"]"<number of repetitions>
<number of repetitions>::="1" | "2" | "3" | ... | "?" | "*" | "+"

```

FIG. 5

```

<context specification>::=<context expression>
<context expression>::=<context term> | <context assignment>
<context term>::=<document object> | <variable> |
    <document object> <object relationship> <document object> |
    <document object> <object relationship> <context expression> |
    <context expression> <object relationship> <document object> |
    <context expression> <object relationship> <context expression>
<context assignment>::=<new variable> ":" <context term> |
    "(" <context term> "/" <new variable> ")"
<object relationship>::="contained" | "inside" | "child-of" | "descendent-of" |
    "containing" | "parent-of" | "ancestor-of" | "sibling-of"
<document object>::="<" <object name> ">" |
    "<" <object name> <attribute list> ">"
<attribute list>::=<attribute> <attribute> ...
<attribute>::=<attribute name> "=" <value>

```

FIG. 6

```

<anchor specification>::=<anchor structure transformation>
<anchor structure transformation>::=<source context> "=>" <anchor context>
<source context>::=<source object list>
<source object list>::=<source object> <source object> ...
<source object>::=<document object> | <object assignment> | <variable>
<object assignment>::=<new variable> ":" <document object> |
    "(" <document object> "/" <new variable> ")"
<anchor context>::=<target object list>
<target object list>::=<target object> <target object> ...
<target object>::=<new object> | <variable>

```

FIG. 7

```

<link specification>::=<link modification list>
<link modification list>::=<link modification> <link modification> ...
<link modification>::=<anchor content modification> | <link attribute modification>
<anchor content modification>::=<object variable> <link operator> <link value>";"
<link attribute modification>::=<link attribute> <link operator> <link value>";"
<link attribute>::=<object variable> "."<attribute name>
<link operator>::="=" | "+="
<link value>::=<any string> | <link record>
<link record>::="{ " <link assignment list> "}"
<link assignment list>::=<link field assignment> <link field assignment> ...
<link field assignment>::=<link field> "=" <link value> ";"
<link field>::=<link id> | <link specification label> | <link description> |
               <link category> | <link type> | <link subtype> | <destination type> |
               <destination reference> | <parameter list>
<destination reference>::=<object id> | <object path> | <script>
<parameter list>::=<parameter> <parameter> ...

```

FIG. 8

source S101: "KKS numbers"

```

document
  31.sgm;
end
pattern
  p="MB"[A-Z[0-9]2[A-Z]2[0-9]3;
end
context
  <AnyDocX><ParaX, ParaX2, ParaX3, ParaX4, ParaX5>p</></>;
end
anchor
  p=>{KKSNum Name=unique-name("NA")>p</>/a};
end
link
  a.Linkend+={link type = "Schematic Diagram";
              destination reference=p; }
end
end

```

FIG. 9

```
intermediate <label> : <description>
  source
    <list of source and intermediate destination labels>
  end
  document
    <list of document references>
  end
  pattern
    <list of pattern specifications>
  end
  context
    <list of context specifications>
  end
  anchor
    <list of anchor specifications>
  end
  link
    <list of link specifications>
  end
end
```

FIG. 10

```
destination <label> : <description>
  source
    <list of source and intermediate destination labels>
  end
  ...
end
```

FIG. 11

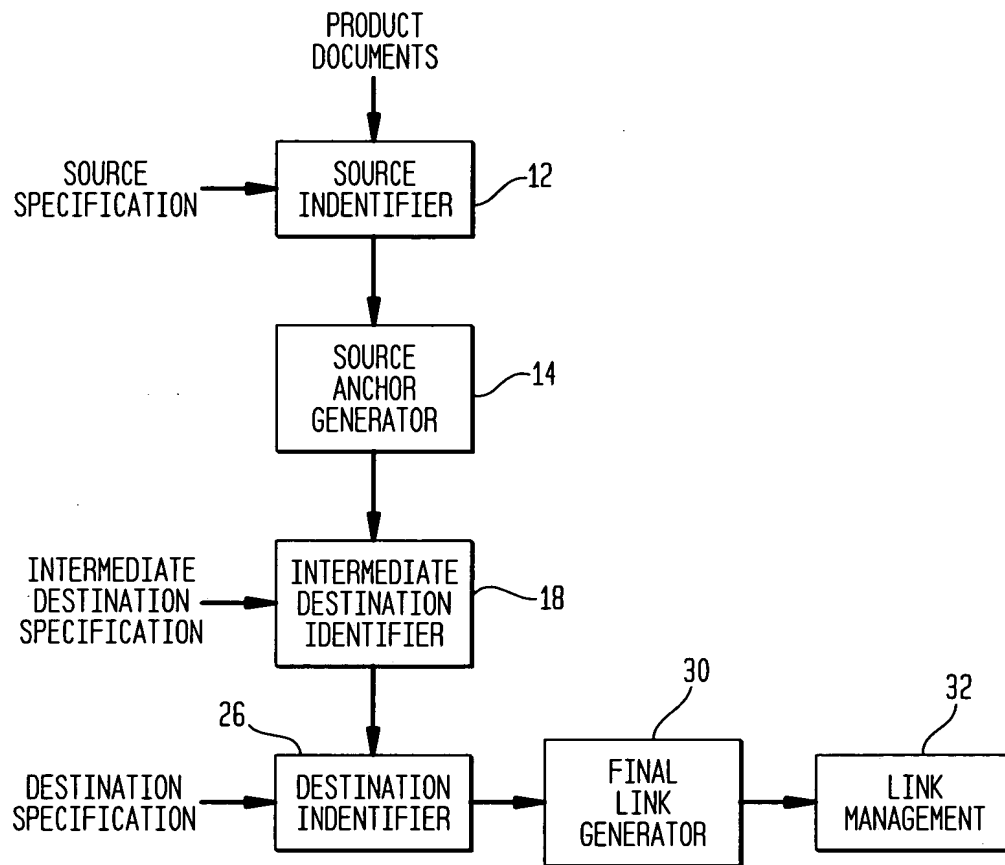


FIG. 12

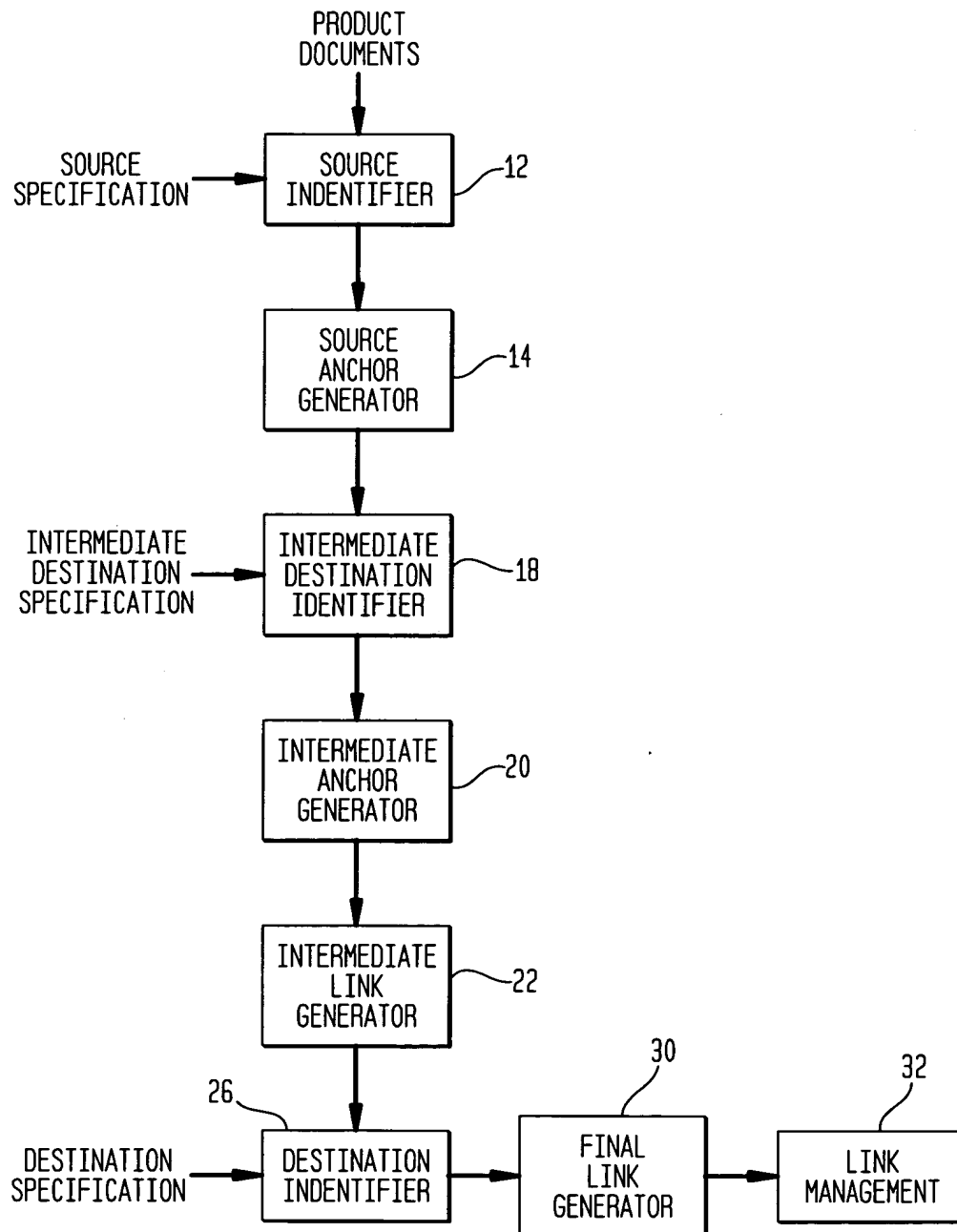


FIG. 13

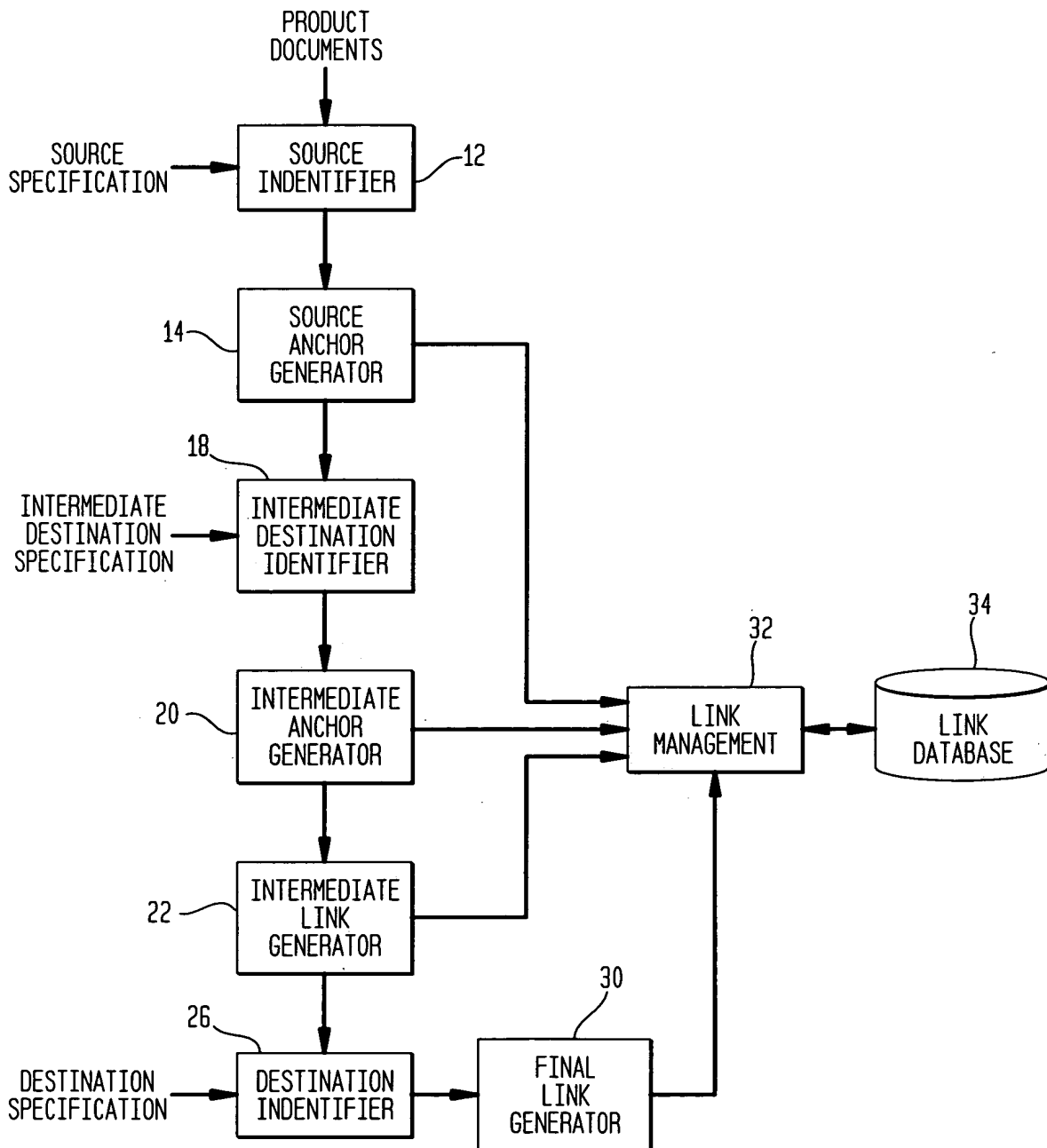


FIG. 14

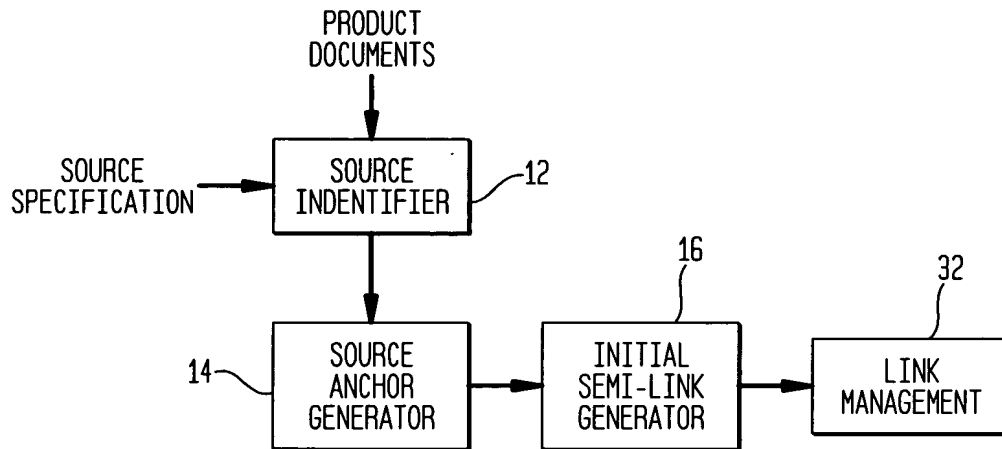


FIG. 15

